

## WHAT IS CLAIMED IS:

1. A document processing apparatus for a structured document formed by grouping original pages, comprising:
  - a display controller which controls display of
  - 5 image objects of either or both of a document structure and an original page contained in the document; and
  - an editor which edits the document so as to insert a new group containing a designated original page to a designated position in accordance with
  - 10 designation of the original page and the position on the image objects displayed by said display controller,
  - wherein said display controller controls display of the image objects for the document edited by said editor.
- 15 2. The apparatus according to claim 1, wherein said display controller displays a selection window capable of selecting whether to edit the document so as to insert the new group containing the designated original page to the designated position or whether to move the
- 20 designated original page to the designated position in accordance with designation of the original page and the position on the image objects, and said editor performs editing processing in accordance with selection in the selection window.
- 25 3. The apparatus according to claim 1, wherein the group has a group attribute, and said editor causes the new inserted group to inherit an attribute of the group

to which the designated original page belongs.

4. The apparatus according to claim 1, wherein the group has a group attribute, and said editor gives a predetermined attribute to the new inserted group.

5 5. The apparatus according to claim 1, wherein the group has a group attribute, said editor causes said display controller to display a selection window capable of selecting whether to cause the new inserted group to inherit an attribute of the group to which the  
10 designated original page belongs, or whether to give a predetermined attribute, and said editor performs editing processing in accordance with selection in the selection window.

6. The apparatus according to claim 1, wherein the  
15 group of the original pages is made to correspond to a layer of a data structure having at least one chapter which forms a document, and at least one original page is made to correspond to a lower layer of the data structure of the chapter.

20 7. A document processing method for a structured document formed by grouping original pages, comprising:  
a display control step of controlling display of image objects of either or both of a document structure and an original page contained in the document; and  
25 an editing step of editing the document so as to insert a new group containing a designated original page to a designated position in accordance with

designation of the original page and the position on the image objects displayed in the display control step,

wherein in the display control step, display of the image objects is controlled for the document edited in the editing step.

8. The method according to claim 7, wherein in the display control step, a selection window capable of selecting whether to edit the document so as to insert the new group containing the designated original page to the designated position or whether to move the designated original page to the designated position is displayed in accordance with designation of the original page and the position on the image objects, and in the editing step, editing processing is performed in accordance with selection in the selection window.

9. The method according to claim 7, wherein the group has a group attribute, and in the editing step, the new inserted group is caused to inherit an attribute of the group to which the designated original page belongs.

10. The method according to claim 7, wherein the group has a group attribute, and in the editing step, a predetermined attribute is given to the new inserted group.

11. The method according to claim 7, wherein the

group has a group attribute, in the editing step, a selection window capable of selecting whether to cause the new inserted group to inherit an attribute of the group to which the designated original page belongs, or  
5 whether to give a predetermined attribute is displayed in the display control step, and in the editing step, editing processing is performed in accordance with selection in the selection window.

12. The method according to claim 7, wherein the  
10 group of the original pages is made to correspond to a layer of a data structure having at least one chapter which forms a document, and at least one original page is made to correspond to a lower layer of the data structure of the chapter.

15 13. A document processing method of processing original data having a print format as an attribute, comprising steps of:

holding original data in a tree structure by giving an attribute to each node; and

20 when separating arbitrary partial tree data in the tree structure into a plurality of partial tree data, replacing an attribute of each separated partial tree with an attribute of a node of the partial tree data in accordance with an attribute before separation.

25 14. The method according to claim 13, wherein the attribute of the separated partial tree includes an attribute value before separation.

15. The method according to claim 13, wherein the attribute of the separated partial tree includes an attribute value designated by a user.

16. The method according to claim 13, wherein the  
5 attribute of the separated partial tree can be selectively applied by a user from a plurality of attribute setting methods.

17. A document processing apparatus which processes original data having a print format as an attribute,  
10 comprising:

a holding unit which holds original data in a tree structure by giving an attribute to each node; and

a replacement unit which, when arbitrary partial tree data in the tree structure held by said holding  
15 unit is separated into a plurality of partial tree data, replaces an attribute of each separated partial tree with an attribute of a node of the partial tree data in accordance with an attribute before separation.

18. A computer program product which records a  
20 program for causing a computer to process a structured document formed by grouping original pages, wherein the program comprises

a code for a display control step of controlling display of image objects of either or both of a  
25 document structure and an original page contained in the document, and

a code for an editing step of editing the

document so as to insert a new group containing a  
designated original page to a designated position in  
accordance with designation of the original page and  
the position on the image objects displayed in the  
5 display control step,

wherein in the display control step, display of  
the image objects is controlled for the document edited  
in the editing step.

19. A computer program product which records a  
10 program for causing a computer to process original data  
having a print format as an attribute, comprising:

a code for a step of holding original data in a  
tree structure by giving an attribute to each node; and

a code for a step of, when separating arbitrary  
15 partial tree data in the tree structure into a  
plurality of partial tree data, replacing an attribute  
of each separated partial tree with an attribute of a  
node of the partial tree data in accordance with an  
attribute before separation.

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